AMENDMENTS

In the Specification:

Please substitute Table 8, as provided below, for original Table 8:

Table 8

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Receptor	Peptide ligand	SEQ	Species of	EC ₅₀	IC ₅₀ range-
		ID NO	origin	range-	binding
				GTP _Y S	assay
				assay	
				ussuy	
CEGPCR4	DVPGVLRF-NH₂	80	C. elegans/flp18	~5-80 nM	0.5-10 nM
(SEQ ID	KSVPGVLRF-NH ₂	92	C. elegans/flp18		
NO:22)	SEVPGVLRF-NH2	98	C. elegans/flp18		
	SVPGVLRF-NH ₂	100	C. elegans/flp18		
	DFDGAMPGVLRF-NH2	120	C. elegans/flp18		
	EIPGVLRF-NH2	121	C. elegans/flp18		
	AVPGVLRF-NH ₂ (AF3)	79	A. suum		
	GDVPGVLRF-NH ₂ (AF4)	84	A. suum		
	GMPGVLRF-NH ₂ (AF20)	87	A. suum		
	ASPSFIRF-NH ₂	78	C. elegans/flp4		
CEGPCR4	GNSFLRF-NH₂	88 .	Manduca	~0.4 - 9 _M	60-900 µM
(SEQ ID	KPNFLRF-NH ₂	91	C. elegans/flp1		
NO:22)	PDVDHVFLRF-NH ₂	94	Locust		
	(SchistoFLRFa)	95	Locust		
	pQDVDHVFLRF-NH ₂	90	synthetic		
	(leucomyosuppressin)#			i	
	ILNIeRF-NH ₂				
CEGPCR4	SPLGTMRF-NH ₂	143	C. elegans/flp3	~10 _M or	50-500 µM
(SEQ ID	SDNFMRF-NH ₂	122	Drosophila	higher	
NO:22)	PDNFMRF-NH ₂	123	Drosophila		
	SAEPFGTMRF-NH ₂	97	C. elegans/flp3		
	GGPQGPLRF-NH₂	85	C. elegans/flp15		
	EIVFHQISPIFFRF-NH₂	83	C. elegans/flp14		
	TDVDHVFLRF-NH₂	101	Drosophila		
	TNRNFLRF-NH ₂ (Lobster	102	Lobster		
	peptide II)	93	C. elegans/flp11		
	NGAPQPFVRF-NH ₂		<u> </u>	L	

CEGPCR4	VLRF-NH ₂	152	synthetic	~4 µM	~0.4 µM
(SEQ ID					
NO:22)			_		

Please substitute the passage provided below for the text at page 53, line 7 to page 54, line 3:

"The CEGPCR3 receptor (SEQ ID NO:43) was found to be activated by several peptide ligands (Table 7), as determined in the GTP_S assay. Chinese hamster ovary cells were incubated for 24 hours at 37°C after transfection, followed by an additional 24 hours incubation at 28°C before cell harvesting for membrane preparation. CEGPCR3 was matched with two *C. elegans* peptides encoded by *flp15*, GGPQGPLRF-NH₂ (SEQ ID NO:85; EC₅₀ 152 nM) and GPSGPLRF-NH₂ (SEQ ID NO:89; EC₅₀ 422 nM). A *Manduca* peptide, GNSFLRF-NH₂ (SEQ ID NO:88; EC₅₀ 7900 nM), also activated the CEGPCR3 receptor, albeit with a potency about 19-52-fold lower than that determined for the two *C. elegans flp15* peptides. Based on these data, we identified CEGPCR3 as the receptor for *flp15* peptides.

Table 7

Receptor	Peptide ligand	SEQ ID	Species of origin	EC ₅₀
		NO	_	range
CEGPCR3	GGPQGPLRF-NH₂	85	C. elegans/flp15	150 –400 nM
(SEQ ID	GPSGPLRF-NH ₂	89	C. elegans/flp15	
NO:44)				
	GNSFLRF-NH ₂	88	Manduca	~ 8 _M
CEGPCR7	GLGPRPLRF-NH ₂	86	A. suum (AF9)/	~200-250 nM
(SEQ ID			C.elegans (flp21)	
NO:26)	[I]Y ⁰ -GLGPRPLRF-	118	Synthetic AF9	
	NH ₂	-	analog	
		1		

In addition, peptide ligands were identified for the CEGPCR7 receptor (SEQ ID NO:25), as revealed in Table 7. One peptide bears the sequence GLGPRPLRF-NH₂ (SEQ ID NO:86; AF9) (EC₅₀ 207 nM). It is worth noting that [I]Y⁰GLGPRPLRF-NH₂ (SEQ ID NO:118), representing an AF9 analog N-terminally extended with a 3-iodo-Tyr residue, was also active (EC₅₀ 237 nM). The

functional activity of $[I]Y^0AF9$ indicates that this analog is an agonist and, in labeled (e.g., radioiodinated) form is useful as a probe for binding assays, including high-throughput screening (HTS) assays."